

## Anti-RANTES/CCL5 Antibody Picoband® APC Conjugated

Catalog Number: PB9573-APC

### About CCL5

Chemokine (C-C motif) ligand 5 (also CCL5) is a protein which in humans is encoded by the CCL5 gene. It is also known as RANTES. This gene is one of several chemokine genes clustered on the q-arm of chromosome 17. Chemokines form a superfamily of secreted proteins involved in immunoregulatory and inflammatory processes. The superfamily is divided into four subfamilies based on the arrangement of the N-terminal cysteine residues of the mature peptide. This chemokine, a member of the CC subfamily, functions as a chemoattractant for blood monocytes, memory T helper cells and eosinophils. It causes the release of histamine from basophils and activates eosinophils. This cytokine is one of the major HIV-suppressive factors produced by CD8+ cells. It functions as one of the natural ligands for the chemokine receptor chemokine (C-C motif) receptor 5 (CCR5), and it suppresses in vitro replication of the R5 strains of HIV-1, which use CCR5 as a coreceptor. Alternative splicing results in multiple transcript variants that encode different isoforms.

### Overview

Product Name	Anti-RANTES/CCL5 Antibody Picoband® APC Conjugated
Reactive Species	Human
Application	Recommended applications are based on the parent unconjugated antibody (ELISA, WB). Customers may select suitable applications according to their experimental needs.
Clonality	Polyclonal
Formulation	Each vial contains 50% glycerol, 0.9% NaCl, 0.2% Na <sub>2</sub> HPO <sub>4</sub> , 0.02% NaN <sub>3</sub> .
Storage Instructions	At -20°C for one year from date of receipt. Avoid repeated freezing and thawing. Protect from light.
Host	Rabbit
Uniprot ID	P13501

### Technical Details

Immunogen	E. coli-derived human RANTES recombinant protein (Position: Y26-S91). Human RANTES shares 83.3% amino acid (aa) sequence identity with both mouse and rat RANTES.
Cross Reactivity	No cross-reactivity with other proteins
Isotype	Rabbit IgG
Form	Liquid
Concentration	0.5 mg/mL
Purification	Immunogen affinity purified.
Conjugate	APC

	Excitation Wavelength: 633-647 nm Emission Wavelength: 660 nm
Suggested Dilutions	Optimal dilutions should be determined by end users.

### 3 Publications Citing This Product

1. PubMed ID: 10.1089/jir.2020.0050, Blockage of C-C Chemokine Ligand 2 Alleviated the Appendicitis-Induced Injury in Rabbit Model
2. PubMed ID: 25786351, Wei Jh, Feng X, Sun Zj, Cheng P, Ma Bf, Zhao J, Dong Yh, Zhang Yq, Li Z. *Reprod Fertil Dev.* 2015 Mar 19. Doi: 10.1071/Rd14231. [Epub Ahead Of Print] Different Locations Of Rantes And Its Receptors On Mouse Epididymal Spermatozoa.
3. PubMed ID: 20189554, Li Z, Sun Zj, Liao Cg, Ma L, Ma Bf, Zhang Yq. *Fertil Steril.* 2010 May 15;93(8):2661-7. Doi: 10.1016/J.Fertnstert.2010.01.053. Epub 2010 Mar 2. Regulated Upon Activation Normal T-Cell Expressed And Secreted Originating From The Epididymis Different...

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